R & D CATALOG FORM

DATE: 15 April 1969

1. PROJECT TITLE/CODE NAME: Microdensitometer Modifications (Stage Modification)

2. SHORT PROJECT DESCRIPTION: This project is to fabricate a modified stage for the [redacted] 1032T Microdensitometer operated at NPIC.

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3. CONTRACTOR NAME: [redacted]

4. LOCATION OF CONTRACTOR: [redacted]

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5. CLASS OF CONTRACTOR: Manufacturer

6. TYPE OF CONTRACT: FP

7. FUNDS: FY 19 68 $ None

FY 19 69 [redacted]

FY 19 70 $ None

8. REQUISITION NO.:

9. BUDGET PROJECT NO.:

10. EFFECTIVE CONTRACT DATE *(Begin - end)*: May 1969 - July 1969

11. SECURITY CLASS.
A.A. - Confidential
T. - Unclassified
W. - Unclassified

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION: DDI/NPIC/TSSG/DED [redacted]

Declass Review by NGA.

13. REQUIREMENT/AUTHORITY

The [redacted] 1032T Trichromatic Microdensitometer has optical aberrations caused by the thick glass stage. These aberrations will have to be reduced before any color film can be analyzed.

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14. TYPE OF WORK TO BE DONE

Engineering Development

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Precision Measurement	Microdensitometry
	Optical Systems

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.

A modified stage will be produced by the manufacturer. This stage will have a center section of very thin glass which will minimize the optical problems caused by the existing glass stage.

17. SUPPORTING OR RELATED CONTRACTS *(Agency & Other)*/COORDINATION: This contract will run concurrently with another contract to [redacted] to improve the scan control and sampling system. After completion of this contract, commercial lens systems will be tried in the microdensitometer to reduce other optical aberrations; if the results of this investigation are not satisfactory, a lens development will be required. Coordination through EXRAND has been performed.

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18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT *(Continue on additional page if required)*

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The [redacted] 1032T Trichromatic Microdensitometer is an analytical instrument used in the evaluation of film imagery. The instrument is also used to a limited extent to "enhance" images to increase their intelligence value. At present the instrument is virtually useless in analyzing color imagery because of the aberrations in the optical system, the stage being a prime cause of these aberrations. By minimizing the thickness of the stage the aberrations caused by it will also be minimized.

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI